



In the United States Patent and Trademark Office

**Application Number:** 10/691,957

**Application Filed:** 2003 October 23

**Applicants:** Seale, Joseph B.; Bergstrom, Gary E.

**Title:** State Space Control of Solenoids

**Examiner/GAU:** Luis Roman/2836

**Mailed:** 2006 May 2

**At:** Gorham, Maine

**DECLARATION UNDER 37 CFR §1.131**

As an applicant in the above identified Application, I hereby declare as follows:

1. I am a joint inventor with the inventor named above of the subject matter of the above identified Application.
2. I have reviewed and understand the contents of the specification and claims, as originally filed and as amended by the amendments dated this date, 2 May 2006.
3. I believe that I, and the other inventor named above, are the original and first inventors of the subject matter which is claimed and for which a patent is being sought.
4. I acknowledge a duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).
5. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, Section 1001, and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this verified statement is directed.

Joseph B. Seale

Signature of First Inventor  
Joseph B. Seale

May 2, 2006

Date of Signature:

**DECLARATION UNDER 37 CFR §1.131**

1. Exhibit I, attached, is an illustration showing a graph of an actual solenoid armature moving under the state-space control of the current invention, together with explanatory text.